

## 7.1 Solving Linear Systems by Graphing

Linear System: 2 equations that relate

$$\begin{cases} 3x + 2y = 4 \\ -x + 3y = -5 \end{cases}$$

Edit

Reset

?

## Solving a linear system by graphing

1

Write equations in  $y = mx + b$

2

Graph both equations

3

Estimate the point of intersection

4

Write the intersection point as an ordered pair...This is the solution!

5

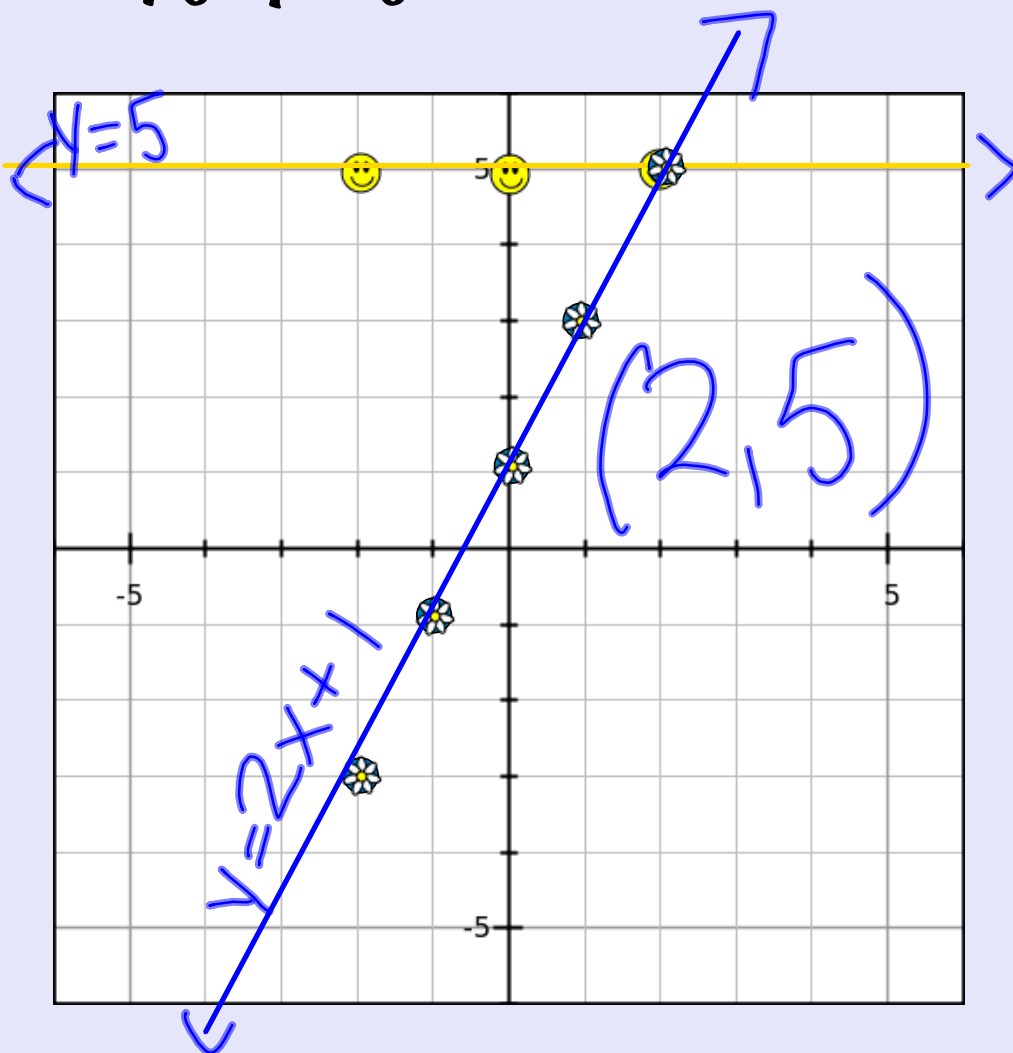
both equations. Ordered pair must be a solution to both equations to be a solution to the system.

**Solve the system by graphing. Check answers algebraically.**

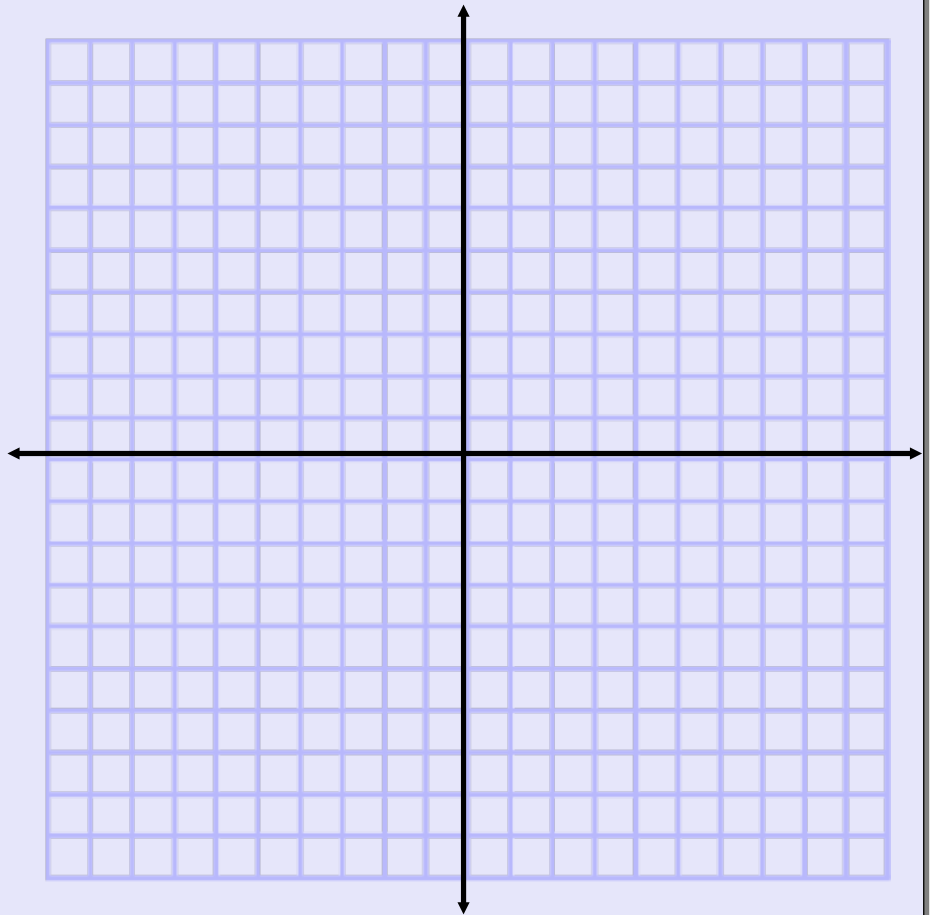
1.  $y = 5$   
 $y = 2x + 1$

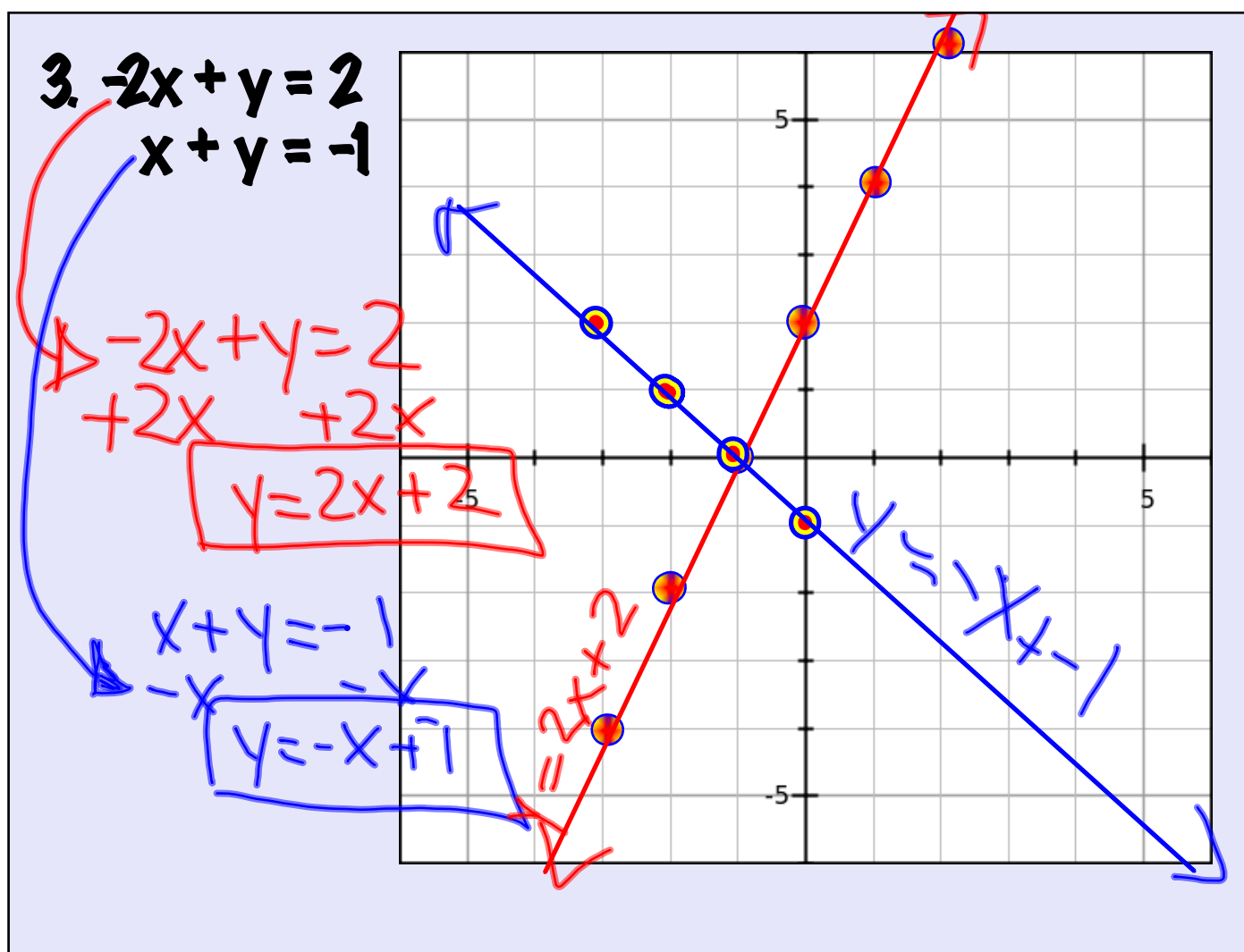
$$\begin{array}{l} y = 5 \\ \boxed{5 = 5} \checkmark \end{array}$$

$$\begin{array}{l} y = 2x + 1 \\ 5 = 2 \cdot 2 + 1 \\ 5 = 4 + 1 \\ \boxed{5 = 5} \checkmark \end{array}$$



2.  $3x + y = 11$   
 $x - 2y = 6$





**HOMEWORK!**